

Acta Anatomica

International Archives of Anatomy, Histology, Embryology and Cytology
Archives Internationales d'Anatomie, d'Histologie, d'Embryologie et de Cytologie
Internationales Archiv für Anatomie, Histologie, Embryologie und Zellforschung

Condiderunt: G. GLIMSTEDT†, T. PÉTERFI†, G. WOLF-HEIDEGGER

Redactores:	E. A. BOYDEN, Seattle, Wash.	A. DELMAS, Paris F. WALBERG, Oslo	G. WOLF-HEIDEGGER, Basel
Editores:	W. E. ADAMS, Dunedin, N.Z. R. AMPRINO, Bari J. ARIËNS KAPPERS, Amsterdam W. BARGMANN, Kiel J. A. BAUMANN, Genève N. J. BERRIL, Montreal P. BODIAN, Baltimore, Md. G. BOEHM, Basel A. BRODAL, Oslo L. BUCCIANTÉ, Padova O. BUCHER, Lausanne W. BUÑO, Montevideo T. CASPERSSON, Stockholm K. S. F. CHANG, Hongkong M. CHÉVREMONT, Liège R. COURRIER, Paris E. V. COWDRY, St. Louis, Mo. A. DALCQ, Bruxelles J. DANKMEIJER, Leiden L. J. A. DI DIO, Toledo, Ohio G. DUBREUIL†, Bordeaux L. EINARSON, Aarhus O. ERÄNKÖ, Helsinki Z. ERENÇİN, Ankara A. FALLER, Fribourg D. W. FAWCETT, Boston Mass. W. U. GARDNER, New Haven, Conn. A. GIROUD, Paris	P. GLEES, Göttingen ST. GRZYCKI, Lublin A. HADJIOLOFF, Sofia G. HÄGGQVIST†, Stockholm A. W. HAM, Toronto G. C. HERINGA, Amsterdam B. E. INGELMARK, Göteborg J. JANSEN, Oslo N. A. JAVACHISHVILI, Tbilisi CH. A. JOËL, Tel Aviv D. KADANOFF, Sofia G. LEPLAT, Liège W. LIERSE, Hamburg R. LOCCHI, São Paulo M. LUCIEN†, Nancy K. S. LUDWIG, Aachen O. MACHADO DE SOUSA, São Paulo Ü. MASKAR, Istanbul R. MILINE, Novi Sad G. A. G. MITCHELL, Manchester M. MORI, Fukuoka O. M. OLIVO, Bologna F. ORTOS LLORCA, Madrid N. PESONEN, Helsinki T. PETRÉN, Stockholm A. POLICARD, Paris A. PORTMANN, Basel M. REICHER, Gdansk E. C. ROOSEN-RUNGE, Seattle, Wash.	F. ROSSI, Genova A. SAVAS, Saloniki H. G. SCHWARZACHER, Wien E. SEIFERLE, Zürich H. SELYE, Montreal H. SETO, Sendai V. SIMIĆ, Beograd J. M. SOSA, Merida D. STARCK, Frankfurt a.M. S. STCHELVUNOW, Leningrad J. STEFFENSEN, Reykjavik PH. STÖHR, Bonn A. STUDITSKI, Moskwa J. SUNDERLAND, Melbourne J. SZENTAGOTHAÏ, Budapest A. A. TARKHAN, Cairo G. TÖNDURY, Zürich I. TÖRÖ, Debrecen J. TURCHINI, Montpellier J. VERNE, Paris P. WEISS, New York, N.Y. D. M. WHITAKER, New York, N.Y. M. W. WOERDEMAN, Amsterdam J. WOLF, Praha M. WRETE, Uppsala J. M. YOFFEY, Jerusalem J. Z. YOUNG, London Z. ZEREN, Istanbul K. ŽLÁBEK, Brno



S. Karger · Basel · München · Paris · London · New York · Sydney

S. Karger · Basel · München · Paris · New York · Sydney
Arnold-Böcklin-Strasse 25, CH-4011 Basel (Schweiz)

All rights, including that of translation into other languages, reserved.
Photomechanic reproduction (photocopy, microcopy) of this volume or parts thereof
without special permission of the publishers is prohibited.

© Copyright 1973 by S. Karger AG, Verlag für Medizin und Naturwissenschaften,
Basel

Printed in Switzerland by Basler Druck- und Verlagsanstalt, Basel
Clichés: Steiner & Cie., AG, Basel

Index

STEINBERG, M.H.; DREILING, B.J.; ROBINSON, F. and HALLFORD, CH. (Jackson/Vicksburg, Miss.): The ultrastructure of developing bone marrow implants: A scanning electron microscope study	1
RICCI, V. and RUSSOLO, M. (Padua): Immunocytochemical observations on the localization of ACTH in the hypophysis of the dog (With Colour Plate I)	10
FISCHER, G. (Hohenheim): Untersuchungen zur qualitativen Verteilung von Enzymen des Kohlenhydratstoffwechsels in der Humerusepiphyse von Ratten bestimmter Altersgruppen	19
PESSACO, T.P. (La Plata): Structural studies on the synapsis of the toad, <i>Bufo arenarum</i> , Hensel. I. Special forms of dendro-dendritic, dendro-somatic and axo-somatic contacts	31
ALBU, I.; GEORGIA, R.; STOICA, E.; GIURGIU, T. et POP, V. (Cluj): Le système des canaux de la couche compacte diaphysaire des os longs chez l'homme	43
SHEHATA, RAMZY (Cairo): Glandular acini in the wall of the lower part of the domestic cat vagina	52
JOVANOVIĆ, S.; ŽIVANOVIĆ, S. and LOTRIĆ, N. (Belgrade/London): A study of sex-determined characteristics of the hip bones in pathologically deformed female pelvis using the method of SAUTER and PRIVAT	62
PÜSCHEL, MÓNICA; HERRERA, ANITA and ALVAREZ, JAIME (Santiago): A soft Epon for the rotary microtome	71
KANAGASUNTERAM, R.; KRISHNAMURTI, A. and WONG, W.C. (Singapore): The termination of optic fibres in the lateral geniculate nucleus of some primates. An ultrastructural study	76
HASAN, M. and GLEES, P. (Göttingen): Lipofuscin in monkey 'lateral geniculate body'. An electron microscope study	85
KAPOOR, A.S. and OJHA, P.P. (Jaipur): Functional anatomy of the nose and accessory nasal sacs in the teleost <i>Channa punctatus</i> Bloch	96
GONZÁLEZ-SANTANDER, R. and CLAVERO NUÑEZ, J.A. (Salamanca): The fine structure of the human oocyte. I. Oval granulo-vesicular bodies	106
KANAGAWA, H. and HAFEZ, E.S.E. (Detroit, Mich.): Morphology of cervix uteri of <i>Rodentia</i> , <i>Carnivora</i> and <i>Artiodactyla</i>	118
GRANDE, RODRIGUES NUNO; BAPTISTA, F. et SOARES, M. (Luanda, Angola): La microcirculation de la paroi des bronchectasies expérimentales	129
MIKHAIL, Y. (Aleppo): Early stages in postnatal development of the adrenal gland	138
OM GOYAL, H. and DHINGRA, L.D. (Haryana): Postnatal study on the histochemistry of testis in Buffalo (<i>Bubalus bubalis</i>). From birth to one year	150

SCHMIDT, B. (Hamburg): Die Histotopographie der Phosphatasen während der Entwicklung der Rattenretina und ihre Störung durch Röntgenstrahlen	161
ERKOÇAK, ALIYE (Ankara): Etude au microscope électronique de la neurohypophyse du rat normal ou après surrenalectomie bilatérale. Recherches sur les pituicytes et sur le mode de libération du neuro-sécrétat	178
GIRGIS, MAKRAM (St. Louis, Mo.): Histochemical localization of acetylcholinesterase enzyme in the 'limbic system' of the brain of the cebus monkey (<i>Cebus apella</i>)	202
SPASSOVA, IRINA (Sofia): Ultrastructure of Krause end-bulbs in the nasal skin of the cat	224
OM GOYAL, H. and DHINGRA, L. D. (Hissar): A study on the postnatal histology of the testis in buffalo (<i>Bubalus bubalis</i>). I. From birth to one year	237
ŽIVANOVIĆ, S. (London): Some morphological and anthropological characters of the orbital region of the East African Bantu skull	251
PUGET, A. et VOISIN, M. C. (Toulouse): Anatomie microscopique de l'appareil digestif d' <i>Ochotona rufescens rufescens</i>	267
YAMADA, K. (Nagoya): The ultrastructure of quail gall bladder epithelium	282
Ooë, TADAHIRO (Tokyo): Sur le développement du plancher de la chambre pulpaire. Contributions à l'embryologie des dents humaines. Troisième partie	302
FOERSTER, H. (Hamburg): Postnatale Organogenese und Zytotopografie der Retina. Untersuchungen am Semidünnschnitt	321
CAMMERMEYER, J. (Bethesda, Md.): Hypendymal cysts adjacent to and over circumventricular regions in primates	353
LEELA, K. and KANAGASUNTERAM, R. (Singapore): Some aspects of the histology of the nonhuman primate nasopharynx	374
KRUSKA, D. und STEPHAN, H. (Hannover): Volumenvergleich allokortikaler Hirnzentren bei Wild- und Hausschweinen	387
HOFFMANN, ANETTE (São Paulo): Stereotaxic atlas of the toad's brain	416
GABE, M. et SAINT GIRONS, H. (Paris): Contribution à l'histologie des glandes nasales externes de <i>Sphenodon punctatus</i> Gray (<i>Reptilia, Rhynchocephalia</i>)	452
LIPPERT, H. (Hannover): TITUS RITTER VON LANZ 1897-1967	465
VERHOFSTAD, A. A. J. and LENSEN, W. F. J. (Nijmegen): On the occurrence of lymphatic vessels in the adrenal gland of the white rat	475
NINKOV, VUKOSAVA; PILETIĆ, OLGA; STOJANOVIĆ, NEVENKA; STEPANOVIĆ, DUŠANKA et BRADIĆ, MILOŠ (Belgrade): Recolonisation de la rate après autotransplantation de moelle protégée chez le rat irradié	484
ROSSANO, G. L.; JUSTO, S. N. and TRAMEZZANI, J. H. (Buenos Aires): Response of the vagina of newborn rats to sequential treatment with sexual hormones	492
MIKHAIL, Y. (Aleppo): A study of some of the histological and histochemical features of the zona reticularis	498

HILL, M.F. and ZDAN, R. (Omaha, Nebr.): Staining the developing skeleton with murexide	509
FULLER, P.M. and HUELKE, D.F. (Ann Arbor, Mich.): Kidney vascular supply in the rat, cat and dog	516
CHIN, K.N. (Sheffield): Ultrastructure of Peyer's patches in the aged mouse	523
ADAMS, D.R. (East Lansing, Mich.): Points of glandular secretion in the nasal cavity of mice	534
GLEES, P. and HASAN, M. (Göttingen): Neuronal soma-somatic contacts in the lateral geniculate body of the monkey in relation to its synaptic organization	541
GURAYA, SARDULS. (Ludhiana): Correlative histochemical and ultrastructural observations on the mitochondria of ram spermiogenesis	552
WONG, W.C. (Singapore): A note on lymphoid aggregations in the oesophagus of the frog (<i>Rana cancrivora</i>)	559
BAUMANN, R. (Bern): Die technische Verarbeitung von Gewebeproben bei Untersuchungen der Grenzschicht Knochen-Metall bei Knochenschrauben	562
WEGMANN, ANNEMARIE (Basel): Die Alters- und Geschlechtsunterschiede des Knochenbaus in Rippenkortikalis und Beckenkammspongiosa	572
VANDAMME, J.P.J.; VANDAMME, J.; BONTE, J. and VAN DER SCHUEREN, G. (Louvain): A possible morphological basis for pearl necklace arteries	584
NATHAN, H. and GOLDHAMMER, Y. (Tel-Aviv): The rootlets of the trochlear nerve. Anatomical observations in human bodies	590
ALMEIDA, O.P. and BOZZO, L. (São Paulo): Morphology of the nerve fibers in both normal and inflamed human dental pulp	597
ADHAMI, HAMID (Erlangen-Nürnberg): Die Photometrische Bestimmung des Cortezzell- und Graugehalts auf der Grundlage des Nissl-Bildes Supplementum 60	
Editorial note - Communication de la rédaction - Mitteilung der Redaktion	319
New Books - Livres nouveaux - Buchbesprechungen	320
Authors' Index	608

Authors' Index

- | | | |
|----------------------------|-----------------------------|--------------------------|
| ADAMS, D. R. 534 | HOFFMANN, ANETTE, 416 | SHEHATA, RAMZY 52 |
| ADHAMI, HAMID Suppl. 60 | HUELKE, D. F. 516 | SOARES, M. 129 |
| ALBU, I. 43 | | SPASSOVA, IRINA 224 |
| ALMEIDA, O. P. 597 | JOVANOVIĆ, S. 62 | STEINBERG, M. H. 1 |
| ALVAREZ, JAIME 71 | JUSTO, S. N. 492 | STEPANOVIĆ, DUŠANKA 484 |
| | | STEPHAN, H. 387 |
| BAPTISTA, F. 129 | KANAGASUNTHERAM, R. 76, 374 | STOICA, E. 43 |
| BAUMANN, R. 562 | KANAGAWA, H. 118 | STOJANOVIĆ, NEVENKA 484 |
| BONTE, J. 584 | KAPOOR, A. S. 96 | |
| BOZZO, L. 597 | KRISHNAMURTI, A. 76 | |
| BRADIĆ, MILOŠ 484 | KRUSKA, D. 387 | TRAMEZZANI, J. H. 492 |
| CAMMERMEYER, J. 353 | | |
| CHIN, K. N. 523 | LEELA, K. 374 | VANDAMME, J. 584 |
| CLAUVERO-NUÑEZ, J. A. 106 | LENSEN, W. F. J. 475 | VANDAMME, J. P. J. 584 |
| | LIPPERT, H. 465 | VERHOFSTAD, A. A. J. 475 |
| DHINGRA, L. D. 150, 237 | LOTRIĆ, NEVA 62 | VOISIN, M. C. 267 |
| DREILING, B. J. 1 | | |
| ERKOÇAK, ALIYE 178 | MIKHAIL, Y. 138, 498 | WEGMANN, ANNEMARIE 572 |
| | NATHAN, H. 590 | WONG, W. C. 76, 559 |
| FISCHER, G. 19 | NINKOV, VUKOSAVA 484 | |
| FOERSTER, H. 321 | | YAMADA, K. 282 |
| FULLER, P. M. 516 | OJHA, P. P. 96 | |
| | OM GOYAL, H. 150, 237 | ZDAN, R. 509 |
| GABE, M. 452 | OoE, TADAHIRO 302 | ŽIVANOVIĆ, S. 62, 251 |
| GEORGIA, R. 43 | | |
| GIRCIS, MAKRAM 202 | PESSACQ, T. P. 31 | |
| GIURCIU, T. 43 | PILETIĆ, OLGA 484 | |
| GLEES, P. 85, 541 | POP, V. 43 | |
| GOLDHAMMER, Y. 590 | PÜSCHEL, MÓNICA 71 | |
| GONZÁLEZ-SANTANDER, R. 106 | PUGET, A. 267 | |
| GRANDE, RODRIGUES NUNO 129 | | |
| GURAYA, SARDUL S. 552 | RICCI, V. 10 | |
| | ROBINSON, F. 1 | |
| | ROSSANO, G. L. 492 | |
| | RUSSOLO, M. 10 | |
| HAFEZ, E. S. E. 118 | | |
| HALLFORD, CH. 1 | SAINT GIRON, H. 452 | |
| HASAN, M. 85, 541 | SCHMIDT, B. 161 | |
| HERRERA, ANITA 71 | SCHUEREN, VAN DER, G. 584 | |
| HILL, M. F. 509 | | |

Acta Anatomica

Acta Anatomica

International Archives of Anatomy, Histology, Embryology and Cytology
Archives Internationales d'Anatomie, d'Histologie, d'Embryologie et de Cytologie
Internationales Archiv für Anatomie, Histologie, Embryologie und Zellforschung

Condiderunt: G. GLIMSTEDT†, T. PÉTERFI†, G. WOLF-HEIDEGGER

Redactores:	E. A. BOYDEN, Seattle, Wash.	A. DELMAS, Paris F. WALBERG, Oslo	G. WOLF-HEIDEGGER, Basel
Editores:	W. E. ADAMS, Dunedin, N.Z. R. AMPRINO, Bari J. ARIËNS KAPPERS, Amsterdam W. BARGMANN, Kiel J. A. BAUMANN, Genève N. J. BERRIL, Montreal P. BODIAN, Baltimore, Md. G. BOEHM, Basel A. BRODAL, Oslo L. BUCCIANTO, Padova O. BUCHER, Lausanne W. BUÑO, Montevideo T. CASPERSSON, Stockholm K. S. F. CHANG, Hongkong M. CHÈVREMONT, Liège R. COURRIER, Paris E. V. COWDRY, St. Louis, Mo. A. DALCQ, Bruxelles J. DANKMEIJER, Leiden L. J. A. DI DIO, Toledo, Ohio L. EINARSON, Aarhus O. ERÄNKÖ, Helsinki Z. ERENÇIN, Ankara A. FALLER, Fribourg D. W. FAWCETT, Boston Mass. W. U. GARDNER, New Haven, Conn. A. GIROUD, Paris P. GLEES, Göttingen	ST. GRZYCKI, Lublin A. HADJIOLOFF, Sofia G. HÄGGQVIST †, Stockholm A. W. HAM, Toronto G. C. HERINGA, Amsterdam B. E. INGELMARK, Göteborg J. JANSEN, Oslo N. A. JAVACHISHVILI, Tbilisi CH. A. JOËL, Tel Aviv D. KADANOFF, Sofia G. LEPLAT, Liège W. LIERSE, Hamburg R. LOCCHI, São Paulo M. LUCIEN †, Nancy K. S. LUDWIG, Basel O. MACHADO DE SOUSA, São Paulo Ü. MASKAR, Istanbul R. MILINE, Novi Sad G. A. G. MITCHELL, Manchester M. MORI, Fukuoka O. M. OLIVO, Bologna F. ORTS LLORCA, Madrid N. PESONEN, Helsinki T. PETRÉN, Stockholm A. POLICARD, Paris A. PORTMANN, Basel M. REICHER, Gdansk E. C. ROOSEN-RUNGE, Seattle, Wash.	F. ROSSI, Genova A. SAVAS, Saloniki H. G. SCHWARZACHER, Wien E. SEIFERLE, Zürich H. SELYE, Montreal H. SETO, Sendai V. SIMIĆ, Beograd J. M. SOSA, Merida D. STARCK, Frankfurt a.M. S. STCHELVUNOW, Leningrad J. STEFFENSEN, Reykjavik PH. STÖHR, Bonn A. STUDITSKI, Moskwa J. SUNDERLAND, Melbourne J. SZENTAGOTHAÏ, Budapest A. A. TARKHAN, Cairo G. TÖNDURY, Zürich I. TÖRÖ, Debrecen J. TURCHINI, Montpellier J. VERNE, Paris P. WEISS, New York, N.Y. D. M. WHITAKER, New York, N.Y. M. W. WOERDEMAN, Amsterdam J. WOLF, Praha M. WRETE†, Uppsala J. M. YOFFEY, Jerusalem J. Z. YOUNG, London Z. ZEREN, Istanbul K. ŽILBEK, Brno



S. Karger · Basel · München · Paris · New York · Sydney
Arnold-Böcklin-Strasse 25, CH-4011 Basel (Schweiz)

All rights, including that of translation into other languages, reserved.
Photomechanic reproduction (photocopy, microcopy) of this volume or parts thereof
without special permission of the publishers is prohibited.

© Copyright 1973 by S. Karger AG, Verlag für Medizin und Naturwissenschaften,
Basel

Printed in Switzerland by Basler Druck- und Verlagsanstalt, Basel

Clichés: Steiner & Cie., AG, Basel

Index

SÜVEGES-MODIS, J.; MODIS, L. et CONTI, G. (Fribourg): Sur le tissu conjonctif de la cornée de rats en hyper- et hypovitaminose A ¹	1
PAGE, R. E. (Manchester): The distribution and innervation of the extra-ocular smooth muscle in the orbit of the rat	10
OHANIAN, CARLOS; GERMINO, NÉSTOR I.; RAMA, FERNANDO; CASTELLANO, MIGUEL A. and TÓRTORA, JORGE (Montevideo): Histochemical studies on phosphorylase activity in the tissues of the albino rat under normal and experimental conditions. V. Effects of experimental cryptorchism on testis phosphorylase	19
JAMES, N. T. (Sheffield): Studies on the histochemical demonstration of myosin ATPase activity in rabbit intrafusal muscle fibers. Intrafusal myosin ATPase activity in the rabbit	30
SHUKLA, R. C.; RASTOGI, MADHURI and SHARMA, R. N. (Lucknow): Autoradiographic and Feulgen reaction study of the regenerating basal melanocytes of the white guinea pig. (With Colour Plate I)	37
PETKOV, P. und GALABOWA, R. (Sofia): Elektronenmikroskopische Untersuchungen der Langerhansschen Inseln im Pankreas des Schweines (<i>Sus scrofa</i>)	41
WONG, W. C. (Singapore): The myenteric plexus in the oesophagus of the toad (<i>Bufo melanostictus</i>)	52
KHANNA, S. S. and REKHARI, KAMLA (Naini Tal): Blood glucose and the histology of the pancreatic islets of <i>Heteropneustes fossilis</i> (Bl.) treated with streptozotocin	63
BROCCOLI, F. and CARINCI, P. (Bologna/Perugia): Histological and histochemical analysis of the obliteration processes of ductus arteriosus Botalli	69
GLOOBE, H. and CHAIN, D. (Tel-Aviv): Fibular fibrous arch - Anatomical considerations in fibular tunnel syndrome	84
VAZQUEZ RODRIGUEZ, RICARDO (Salamanca): Some aspects of neurosecretory morphology in various genital states	88
MATTANZA, GUIDO G. (Zürich): Zur Bedeutung des embryonalen Zelluntergangs im Vorderhirn. I. Untersuchungen am Menschen und bei der Maus	96
FURLANI, J. (São Paulo): The anterior choroidal artery and its blood supply to the internal capsule	108
LAMBERTY, B. G. H. and ŽIVANOVIĆ, S. (London): The retro-articular vertebral artery ring of the atlas and its significance	113
DOLEŽEL, S. (Bratislava): Über die Variabilität der adrenergen Innervation der grossen Gefässe	123
SIMON, MARK R. and MOSS, MELVIN L. (New York, N.Y.): A functional cranial analysis of human sigmoid notch form	133
KANAN, C. V. (Karthoum): The external configuration of the cerebral hemispheres of the camel (<i>Camelus dromedarius</i>)	145

HELANDER, HERBERT F. (Umeå): Morphological studies on the development of the rat colonic mucosa	153
ŽLÁBEK, KAREL (Brünn): Über dünne interkapillare Anastomosen im Nieren-glomerulus der Ratte	177
GARG, B.D.; TUCHWEBER, B.; WERRINGLOER, J.; KHANDEKAR, J.D. and KOVACS, K. (Montreal, Que.): Ultrastructural changes in rat hepatocytes following discontinuation of pregnenolone-16 α -carbonitrile treatment	190
MATTANZA, GUIDO G. (Zürich): Zur Bedeutung des embryonalen Zelluntergangs im Vorderhirn. II. Histochemische Untersuchungen bei der Maus	206
STACH, W. (Rostock): Über die Nervengeflechte der Duodenalzotten. Licht- und elektronenmikroskopische Untersuchungen	216
MAGARI, S.; AKASHI, Y. und ASANO, S. (Osaka): Über die feinstrukturellen Veränderungen im Ependym des III. Ventrikels des Kaninchens bei experimenteller Blockade des zervikalen Lymphsystems	232
STAHL, ANDRÉ et CARLON, NICOLE (Marseille): Morphogenèse des cordons sexuels et signification de la zone médullaire de la gonade chez l'embryon de Poulet	248
EL-TOUBI, M.R.; KAMAL, A.M. and ZAHER, M.M. (Cairo): The development of the chondrocranium of the snake, <i>Malpolon monspessulana</i> . I. The early and intermediate stages	275
MANOCHA, SOHAN L. and OLKOWSKI, ZBIGNIEW (Atlanta, Ga.): Histochemical distribution of phosphorylase in the central nervous system of primates, <i>Saimiri sciureus</i> and <i>Macaca mulatta</i>	300
HAFEZ, E.S.E. (Detroit, Mich.): Surface ultrastructure of reproductive tract in female crab-eating (<i>M. fascicularis</i>) and bonnet (<i>M. radiata</i>) macaques	317
ŚMIALOWSKI, A. (Kraków): Lateral hypothalamic nucleic in the macaque (<i>Macaca mulatta</i>) brain: Myeloarchitectonics	332
LEV, M. and THAEMERT, J.C. (Chicago, Ill.): the conduction system of the mouse heart	342
FORSBERG, J.G. and ABRO, A. (Bergen): Ultrastructural studies on cell degeneration in the mouse uterovaginal anlage	353
VIZIOLI, MÁRIO ROBERTO (São Paulo): Dynamics of fibrillar components in rat sponge-induced granulation tissue	368
MOORE, W.J. (Leeds): An experimental study of the functional components of growth in the rat mandible	378
MIKHAIL, YOUSSEF and AMIN, FAKHRY (Cairo): Effects of different hormones on the zoning and sinusoids of the adrenal gland	386
QAYYUM, M.A. (Bhopal): Innervation of the heart of the Indian cat <i>Felis catus</i>	395
CADETTE-LEITE, A. (Luanda): Etude microangiographique de l'irrigation artérielle de l'utérus chez la Chienne	407
MCLELLAND, J. (Liverpool): The innervation of the avian bronchi	418
RAI, BHUWAN PRAKASH (Gorakhpur): On the neurosecretory Centres in the hypothalamus and their relationship in reproduction in <i>Tor (Barbus tor)</i> (Ham.)	429
GABE, M. (Paris): Contribution à l'histologie des cellules endocrines duodénales des Sauropsidés	434

MONGINI, FRANCO (Turin): Factors controlling microhardness values in primary bone of the human mandibular condyle	450
GOMEZ OLIVEROS, L.; GOMEZ PELLICO, L. and ROHDE, M. (Madrid): Über die myo-elastischen Bildungen im Trigonum vesicae des Mannes	458
SOMOCYI, GY.; TÖMBÖL, TEREZ and HAJDU, F. (Budapest): Golgi architecture and connections of the nucleus anterodorsalis thalami	466
SCHUMACHER, G. H.; FANGHÄNEL, J. und SCHULTZ, E. (Rostock): Quantitative Untersuchungen über das postnatale Wachstum von <i>Rettus norvegicus</i> Berkenhout unter normalen und statisch veränderten Bedingungen. V. Organe des Urogenitalsystems (Niere, Hoden, Ovar)	477
SKALKO, RICHARD G. and COWDEN, RONALD R. (New York): Histochemical studies of cartilage development in the mouse limb-bud. I. Connective tissue, RNA, and protein end-group methods	499
VAJDA, J.; FEHÉR, ELISABETH and CSÁNYI, K. (Budapest): The sensory nerve terminals of the mesentery	514
LYSER, KATHERINE M. (New York): The fine structure of the glycogen body of the chicken	533
GONZALO-SANZ, L. M. and LLAMAS-MARCOS, A. (Navarra): Entwicklung des kaudalen Abschnittes des Wolffschen Ganges. Experimentalstudium an Hühnerembryonen	550
VARMA, SANTOSH KUMARI and GURAYA, SARDUL S. (Punjab): Histochemical observations on the granulosa (follicular) cells in the preovulatory and postovulatory follicles of garden lizard ovary	563
BACCHI, ALICE BOTTAZZI and SASSU, GRAZIA (Sassari): On the fine structure of the motor end-plates during muscular regeneration in <i>Gongylus ocellatus</i>	580
EL-TOUBI, M. R.; KAMAL, A. M. and ZAHER, M. M. (Cairo): The development of the chondrocranium of the snake, <i>Malpolon monspessulana</i> . II. The fully formed stage	593
GIL, D. RUANO and RATTO, G. DOMÉNECH (Barcelona): Contribution to the study of the origin of leptomeninges in the human embryo	620
Index autorum	624

Index autorum

- | | | |
|----------------------------|--------------------------|-------------------------------|
| ÄBRO, ARNOLD 353 | HAFEZ, E.S.E. 317 | RAMA, FERNANDO 19 |
| AKASHI, Y. 232 | HAJDU, F. 466 | RASTOGI, MADHURI 37 |
| AMIN, FAKHRY 386 | HELANDER, HERBERT F. 153 | RATTO, G. DOMÉNECH 620 |
| ASANO, S. 232 | | REKHARI, KAMLA 63 |
| | JAMES, N.T. 30 | ROHDE, M. 458 |
| BACCHI, ALICE BOTTAZZI 580 | | |
| BROCCOLI, F. 69 | KAMAL, A.M. 593 | SASSU, GRANZIA 580 |
| | KAMAL, A.M. 275 | SCHULTZ, E. 477 |
| CADETTE-LEITE, A. 407 | KANAN, C.V. 145 | SCHUMACHER, G.H. 477 |
| CHAIN, D. 84 | KHANDEKAR, J.D. 190 | SHARMA, R.N. 37 |
| CARINCI, P. 69 | KHANNA, S.S. 63 | SHUKLA, R.L. 37 |
| CARLON, NICOLE 248 | KOVACS, K. 190 | SIMON, MARK R. 133 |
| CASTELLANO, MIGUEL A. 19 | | SKALKO, RICHARD G. 499 |
| CONTI, G. 1 | LAMBERTY, B.G.H. 113 | ŚMIALOWSKI, ANTONI 332 |
| COWDEN, RONALD R. 499 | LEV, MAURICE 342 | SOMOGYI, GY. 466 |
| CŠÁNYI, K. 514 | LLAMAS-MARCOS, A. 550 | STACH, W. 216 |
| | LYSER, KATHERINE M. 533 | STAHL, ANDRÉ 248 |
| | | SÜVEGES-MODIS, J. 1 |
| DOLEŽEL, S. 123 | MAGARI, S. 232 | |
| | MANOCHA, SOHAN L. 300 | THAEMERT, JONA C. 342 |
| EL-TOUBI, M.R. 275 | MATTANZA, GUIDO G. 96 | TÖMBÖL, TEREZ 466 |
| EL-TOUBI, M.R. 593 | MATTANZA, GUIDO G. 206 | TÓRTORA, JORGE 19 |
| | McLELLAND, J. 418 | TUCHWEBER, B. 190 |
| FANGHÄNEL, J. 477 | MIKHAIL, YOUSSEF 386 | |
| FEHÉR, ELISABETH 514 | MODIS, L. 1 | VAJDA, J. 514 |
| FORSBERG, JOHN-GUNNAR 353 | MONGINI, FRANCO 450 | VARMA, SANTOSH KUMARI 563 |
| FURLANI, J. 108 | MOORE, W.J. 378 | VÁZQUEZ RODRIGUEZ, RICARDO 88 |
| | MOSS, MELVIN L. 133 | VIZIOLI, MÓRIO ROBERTO 368 |
| GABE, M. 434 | OHANIAN, CARLOS 19 | |
| GALABOWA, R. 41 | OLKOWSKI, ZBIGNIEW 300 | WERRINGLOER, J. 190 |
| GARG, B.D. 190 | | WONG, W.C. 52 |
| GERMINO, NÉSTOR I. 19 | PAGE, R.E. 10 | |
| GIL, D.RUANO 620 | PETKOV, P. 41 | |
| GLOOBE, H. 84 | | ZAHER, M.M. 275 |
| GOMEZ OLIVEROS, L. 458 | QAYYUM, M.A. 395 | ZAHER, M.M. 593 |
| GOMEZ, PELLICO, L. 458 | | ŽIVANOVIĆ, S. 113 |
| GONZALO-SANZ, L.M. 550 | RAI, BHUWAN PRAKASH 429 | ŽLABEK, KAREL 177 |
| GURAYA, SARDUL S. 563 | | |

Acta Anatomica

International Archives of Anatomy, Histology, Embryology and Cytology
Archives Internationales d'Anatomie, d'Histologie, d'Embryologie et de Cytologie
Internationales Archiv für Anatomie, Histologie, Embryologie und Zellforschung

Condiderunt: G. GLIMSTEDT†, T. PÉTERFI†, G. WOLF-HEIDEGGER

Redactores:	E. A. BOYDEN, Seattle, Wash.	A. DELMAS, Paris F. WALBERG, Oslo	G. WOLF-HEIDEGGER, Basel
Editores:	W. E. ADAMS, Dunedin, N.Z. R. AMPRINO, Bari J. ARIËNS KAPPERS, Amsterdam W. BARGMANN, Kiel J. A. BAUMANN, Genève N. J. BERRIL, Montreal P. BODIAN, Baltimore, Md. G. BOEHM, Basel A. BRODAL, Oslo L. BUCCIANTIE, Padova O. BUCHER, Lausanne W. BUÑO, Montevideo T. CASPERSSON, Stockholm K. S. F. CHANG, Hongkong M. CHÈVREMONT, Liège R. COURRIER, Paris E. V. COWDRY, St. Louis, Mo. A. DALCQ, Bruxelles J. DANKMEIJER, Leiden L. J. A. DI DIO, Toledo, Ohio L. EINARSON, Aarhus O. ERÄNKÖ, Helsinki Z. ERENÇIN, Ankara A. FALLER, Fribourg D. W. FAWCETT, Boston Mass. W. U. GARDNER, New Haven, Conn. A. GIROUD, Paris	P. GLEES, Göttingen St. GRZYCKI, Lublin A. HADJIOLOFF, Sofia A. W. HAM, Toronto G. C. HERINGA, Amsterdam B. E. INGELMARK, Göteborg J. JANSEN, Oslo N. A. JAVACHISHVILI, Tbilisi CH. A. JOËL, Tel Aviv D. KADANOFF, Sofia G. LEPLAT, Liège W. LIERSE, Hamburg R. LOCCHI, São Paulo K. S. LUDWIG, Basel O. MACHADO DE SOUSA, São Paulo Ü. MASKAR, Istanbul R. MILINE, Novi Sad G. A. C. MITCHELL, Manchester M. MORI, Fukuoka O. M. OLIVO, Bologna F. ORTOS LLORCA, Madrid N. PESONEN, Helsinki T. PETRÉN, Stockholm A. POLICARD, Paris A. PORTMANN, Basel M. REICHER, Gdansk E. C. ROOSEN-RUNGE, Seattle, Wash. F. ROSSI, Genova	A. SAVAS, Saloniki J.-H. SCHARF, Halle H. C. SCHWARZACHER, Wien E. SEIFERLE, Zürich H. SELYE, Montreal H. SETO, Sendai V. SIMIĆ, Beograd J. M. SOSA, Merida D. STARCK, Frankfurt a.M. S. STCHELVUNOW, Leningrad J. STEFFENSEN, Reykjavik PH. STÖHR, Bonn A. STUDITSKI, Moskwa J. SUNDERLAND, Melbourne J. SZENTAGOTHAL, Budapest A. A. TARKHAN, Cairo G. TÖNDURY, Zürich I. TÖRÖ, Debrecen J. TURCHINI, Montpellier J. VERNE, Paris P. WEISS, New York, N.Y. D. M. WHITAKER, New York, N.Y. M. W. WOERDEMAN, Amsterdam J. WOLF, Praha M. WRETE†, Uppsala J. M. YOFFEY, Jerusalem J. Z. YOUNG, London Z. ZEREN†, Istanbul K. ŽLÁBEK, Brno



S. Karger · Basel · München · Paris · New York · Sydney
Arnold-Böcklin-Strasse 25, CH-4011 Basel (Schweiz)

All rights, including that of translation into other languages, reserved.
Photomechanic reproduction (photocopy, microcopy) of this volume or parts thereof
without special permission of the publishers is prohibited.

© Copyright 1973 by S. Karger AG, Verlag für Medizin und Naturwissenschaften,
Basel

Printed in Switzerland by Basler Druck- und Verlagsanstalt, Basel
Clichés: Steiner & Cie., AG, Basel

Index

FERNANDO, DARREL A. (Kensington, Australia): An electron microscopic study of the neuroglial reaction in the hypoglossal nucleus after transection of the hypoglossal nerve	1
OHANIAN, CARLOS (Montevideo): Histochemical studies on phosphorylase activity in the tissues of the albino rat under normal and experimental conditions. III. Myoepithelial cells	15
KREINER, JERZY† (Kraków): Fissural cortex in the brain of the mouse . .	23
LEELA, K. (Singapore): Some abnormal cilia in the nasopharynx of the slow loris (<i>Nycticebus coucang</i>)	34
KEYSER, A. (Nijmegen): The development of the diencephalon in the Chinese hamster: an investigation into the validity of the criteria of subdivision of the brain. Summary of a lecture given to the Dutch Association of Anatomists, October 16, 1971	42
AMAT, P. and BOYA, J. (Salamanca): Ultrastructural observations on the genesis and extrusion of secretory granules in the adenohipophysis	44
ECONOMOPOULOS, P. (Athens): The formation and degradation of granules in eosinophil cells	53
GOYAL, HARI OM and DHINGRA, L. D. (Hissar, India): Postnatal study on the histology and histochemistry of mediastinum testis in buffalo (<i>Bubalus bubalis</i>) from birth to one year	65
ONO, KAZUYUKI (Morioka, Japan): The fine structural localization of alkaline phosphatase activity of intestinal microvilli in the developing chick embryo	71
SHARMA, SURESHWAR (Indore, India): Studies on the urophysis and the caudal neurosecretory system in a teleost, <i>Ompok bimaculatus</i> (Bloch)	83
SEGALL, W. (Chicago, Ill.): Characteristics of the ear, especially the middle ear in fossorial mammals, compared with those in the <i>Manidae</i>	96
MISCALENCU, D. and IONESCU, M. D. (Bucharest): The fine structure of the epidermis and dermal chromatophores in <i>Vipera ammodytes</i> (L.)	111
WICKE, L.; SPÄGLER, H. P.; FIRBAS, W.; SINZINGER, H.; OLBERT, F. and REISINGER L. (Wien): Die Länge der Arteria linealis im Angiogram	123
ELIŠKA, O. (Prague): Phreno-oesophageal membrane and its role in the development of hiatal hernia	137
GABALLAH, M. F.; RAKHAWY, M. T., and BADAWY, Z. H. (Cairo): On the course of the posterior and the middle superior alveolar canals	151
BADOUX, D. M. (Utrecht): On the skin stress in the equine femur	157
PETROVICKÝ, P. (Prague): Note on the connections of Gudden's tegmental nuclei. I. Efferent ascending connections in the mamillary peduncle	165
FERNANDO, DARREL A. (Kensington): Ultrastructural observations on retrograde degeneration in neuronal perikarya of the hypoglossal nucleus	191
SKLENSKÁ, ANNA (Rom/Brno): Die Ultrastruktur des Golgischen Sehnenorgans bei der Katze	205

BIDWAI, P.P. and BAWA, S.R. (Chandigarh): Spermatogonial study of the testes of the Indian hedgehog <i>Paraechinus micropus</i> in the breeding and non-breeding seasons	222
JASIŃSKI, A. (Kraków): Electron microscopic study of the pars distalis of the hypophysis in the pond loach, <i>Misgurnus fossilis</i> L.	228
BISHT, JITENDRA S. and DIXIT, R.K. (Naini Tal): Histo cytology of the pituitary gland of a hill-stream teleost, <i>Schizothorax richardsonii</i> (Gray and Hard)	253
LANG, J. (Würzburg): Die äusseren Liquorräume des Gehirns	267
TREFF, W.M. und FIX, J.D. (Tübingen/Louisville, Ky.): Über Korrelationen zwischen der Neokortikalisierung und den Struktur- sowie Zellparametern des Nucleus lateralis sive dentatus im Kleinhirn der Primaten	325
SCHWARZ, M.E. (Basel): Some new aspects about the prosencephalon of <i>Lam-petra fluviatilis</i> (L.). A cytoarchitectural and comparative study	353
JASIŃSKI, A. (Kraków): Air-blood barrier in the respiratory intestine of the pond-loach, <i>Misgurnus fossilis</i> L. An ultrastructural study	376
GILLBE, G.V. (Manchester): A comparison of the disc in the craniomandibular joint of three mammals	394
BORODULYA, A.V. and PLETCHKOVA, E.K. (Moscow): Distribution of cholin-ergic and adrenergic nerves in the internal carotid artery. A histo-chemical study	410
ONO, K. (Morioka): Fine structural localization of alkaline phosphatase activity on the surface of the male genital canal in normal and castrated rabbits	426
NOVOTNÝ, V. (Brno): Relation between receptor kind and afferent fibre diameter in the knee-joint capsule of the cat	436
MISCALENCU, D. (Bucharest): Fine structure of plasma cells in the spleen of Guérin tumour-bearing white rats	451
FERNANDO, D.A. (Kensington): An electron microscopic study of the neuro-glial reaction in Wallerian degeneration of the corticospinal tract	459
HADŽISELIMOVIĆ, F. und SEGUCHI, H. (Basel): Elektronenmikroskopische Untersuchungen an Kinder-Hoden bei unvollständigem Descensus	474
UPADHYAY, S.N. and GURAYA, S.S. (Ludhiana, Punjab): Histochemical studies on the spermatogenesis of some teleost fishes	484
GÄDEV, H. (Sofia): Recherches histologiques et histo-fluorescentes sur les granules sécrétoires des cellules épithéliales des villosités choriales chez la Brebis	515
KHANNA, S.S. and KUMAR, S. (Naini Tal): Cellular composition of the pan-creatic islets of the common Indian frog, <i>Rana tigrina</i>	524
OJEDA SAHAGUN, J.L.; LOPEZ LARA, F., and GOMEZ BOSQUE, P. (Valladolid): Incorporation of tritiated uridine into the primitive neural tube of chicken embryo	532
SAMPAIO-TAVARES, A.; ABRUNHOSA, R.; TOMÉ-RIBEIRO, A. et AMARAL, ISOLETTE (Porto): Répercussions lymphatiques de l'obstruction de la veine cave crâniale	540

Index

v

SAIDAPUR, S.K. and NADKARNI, V.B. (Dharwar): Follicular atresia in the ovary of the frog <i>Rana cyanophlyctis</i> (Schneider)	559
EL-EISHI, H.I.; AYOUB, S.F., and ABD-EL-KHALEK, M. (Mansoura): The arterial supply of the human stomach	565
Society Transactions - Sociétés - Gesellschaftsberichte	
Verhandlungen der freien Vereinigung der Anatomen an Schweizerischen Hochschulen. 36. Tagung, Genf 6.-7. Oktober 1972	300
Book Reviews - Buchbesprechungen - Livres nouveaux	324
Index autorum	581
Supplementum	
LUDWIG, K.S. and BARTELS, H. (Aachen/Hannover): Progress in Comparative Placentology. Suppl. 61	

Index autorum

- Abd-el-Khalek, M. 565
 Abrunhosa, R. 540
 Akert, K. 311
 Amaral, I. 540
 Amat, P. 44
 Amherdt, M. 318
 Anguelov, G. 315
 Ayoub, S.F. 565

 Badawy, Z.H. 151
 Badoux, D.M. 157
 Bartels, H. Suppl. 61
 Baud, C.A. 304
 Baud, J.P. 304
 Baumann, G. 315
 Baumann, J.A. 316
 Baur, R. Suppl. 61
 Bawa, S.R. 222
 Bidwai, P.P. 222
 Bisht, Jitendra S. 253
 Björkman, N. Suppl. 61
 Bommeli, W. 309
 Borodulya, A.V. 410
 Boya, J. 44
 Braaker, P. 317
 Bucher, O. 307, 320

 Cordier, A. 302

 Dambrain, R. 302
 Davidoff, H. Suppl. 61
 Dbaly, J. 313
 Dhingra, L.D. 65
 Diethelm, F. 317
 Dixit, R.K. 253
 Douniau, R. 302

 Economopoulos, P. 53
 El-Eishi, H.I. 565
 Eliška, O. 137

 Faller, A. 309
 Fernando, D.A. 1, 191, 459

 Filogamo, G. 301
 Firbas, W. 123
 Fix, J.D. 325
 Fleisch, H. 313
 Foroglou, Ch. 306

 Gaballah, M.F. 151
 Gädev, H. 515
 Gallera, J. 306
 Garcia-Bohny, U. 315
 Gillbe, C.V. 394
 Gomez Bosque, P. 532
 Gonzalo, L.M. 305
 Goyal, H.O. 65
 Gubser, M. 313
 Guraya, S.S. 484

 Hadžiselimović, F. 474
 Haumont, S. 302, 303, 314

 Ionescu, M.D. 111

 Jasiński, A. 228, 376

 Kaneff, A. 315
 Kazimierczak, J. 308, 320
 Keyser, A. 42
 Khanna, S.S. 524
 Kihm, U. 310
 Kreiner, J. 23
 Krstić, R. 307, 320
 Kubik, S. 316
 Kumar, S. 524

 Lahlaïdi, A. 316
 Lang, J. 267, 300
 Larsen, J.F. Suppl. 61
 Leela, K. 34
 Leiser, R. 310
 Livingston, R.B. 311
 Lopez Lara, F. 532
 Ludwig, K.S. Suppl. 61

 Maillot, C. 304
 Malaisse-Lagae, F. 318
 Manestar, M. 316
 Matter, A. 318
 Meier, R.E. 301, 313
 Mihailovic, J. 313
 Miscalencu, D. 111, 451
 Mongini, F. 305
 Moor, H. 311
 Mosimann, W. 309

 Nadkarni, V.B. 559
 Ngoma, Z. 314
 Niederhäusern, W. von 316
 Novotný, V. 436

 Ohanian, C. 15
 Ojeda Sahagun, J.L. 532
 Olbert, F. 123
 Ono K. 1, 426
 Orci, L. 318

 Paschoud, N. 321
 Perisic, M. 313
 Petrovický, P. 165
 Pexieder, T. 308, 321
 Pfenninger, K. 311
 Pletchkova, E.K. 410

 Radic, A. 315
 Rakhawy, M.T. 151
 Ravazzola, M. 318
 Reisinger, L. 123
 Russell, R.R.G. 313

 Saidapur, S.K. 559
 Saito, K. 312
 Sampaio-Tavares, A. 540
 Scheiff, J.M. 302
 Schenk, R.K. 313
 Schwab, M.E. 353
 Segall, W. 96

- | | | |
|---------------------|----------------------|-------------------|
| Seguchi, H. 474 | Theiler, K. 307 | Vaclavek, J. 315 |
| Sharma, S. 83 | Tomé-Ribeiro, A. 540 | Vassalli, P. 318 |
| Sinzinger, H. 123 | Tournade, A. 304 | Weibel, E. R. 303 |
| Sisto, L. D. 301 | Treff, W. M. 325 | Wicke, L. 123 |
| Sklenská, Anna 205 | Tuchschmid, D. 316 | Winckler, G. 306 |
| Sol, P. 308 | Upadhyay, S. N. 484 | Wyss, P. 321 |
| Spängler, H. P. 123 | | Zaki, W. 311, 322 |
| Stolić, E. 319 | | |

